

Check images in machine (no images)

Then search for images

```
Command Prompt
Microsoft Windows [Version 10.0.19041.985]
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C:\Users\Kennedey>docker images
REPOSITORY      TAG              IMAGE ID         CREATED        SIZE

C:\Users\Kennedey>docker search ubuntu
NAME                DESCRIPTION                STARS      OFFICIAL    AUTOMATED
ubuntu              Ubuntu is a Debian-based Linux operating sys... 12326      [OK]
dorowu/ubuntu-desktop-lxde-vnc  Docker image to provide HTML5 VNC interface ... 538
websphere-liberty    WebSphere Liberty multi-architecture images ... 273      [OK]
rastasheep/ubuntu-sshd  Dockerized SSH service, built on top of offi... 253
consol/ubuntu-xfce-vnc  Ubuntu container with "headless" VNC session... 240
ubuntu-upstart        Upstart is an event-based replacement for th... 110      [OK]
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mysql-5  ubuntu-16-nginx-php-phpmyadmin-mysql-5  50      [OK]
open-liberty         Open Liberty multi-architecture images based... 46      [OK]
ubuntu-debootstrap   debootstrap --variant=minbase --components=m... 44      [OK]
i386/ubuntu          Ubuntu is a Debian-based Linux operating sys... 25
nuagebec/ubuntu      Simple always updated Ubuntu docker images w... 24
solita/ubuntu-systemd  Ubuntu + systemd  24
1and1internet/ubuntu-16-apache-php-5.6  ubuntu-16-apache-php-5.6  14
1and1internet/ubuntu-16-apache-php-7.0  ubuntu-16-apache-php-7.0  13
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10  ubuntu-16-nginx-php-phpmyadmin-mariadb-10  11
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4  ubuntu-16-nginx-php-5.6-wordpress-4  9
1and1internet/ubuntu-16-nginx-php-5.6  ubuntu-16-nginx-php-5.6  8
1and1internet/ubuntu-16-apache-php-7.1  ubuntu-16-apache-php-7.1  7
1and1internet/ubuntu-16-nginx-php-7.0  ubuntu-16-nginx-php-7.0  4
pivotaldata/ubuntu    A quick freshening-up of the base Ubuntu doc... 4
pivotaldata/ubuntu16.04-build  Ubuntu 16.04 image for GPDB compilation  2
pivotaldata/ubuntu-gpdb-dev  Ubuntu images for GPDB development  1
smartentry/ubuntu     ubuntu with smartentry  1
1and1internet/ubuntu-16-sshd  ubuntu-16-sshd  1
1and1internet/ubuntu-16-php-7.1  ubuntu-16-php-7.1  1

C:\Users\Kennedey>
```

Pull an image of Ubuntu 16.04

Then pull an image of Ubuntu 16.10

Then check updated list of images

```
Command Prompt

C:\Users\Kennedey>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce60046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cdd6c27d1: Pull complete
Digest: sha256:9775877f420d453ef790e6832d77630a49b32a92b7bedf330adf4d8669f6600e
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\Kennedey>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\Kennedey>docker images
REPOSITORY      TAG              IMAGE ID         CREATED        SIZE
ubuntu          16.04           9ff95a467e45    2 weeks ago    135MB
ubuntu          16.10           7d3f705d307c    3 years ago    107MB

C:\Users\Kennedey>
```

Remove the Ubuntu 16.10 image

Then check updated list of images

Command Prompt

```
C:\Users\Kennedey>docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\Users\Kennedey>docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
ubuntu        16.04      9ff95a467e45  2 weeks ago  135MB

C:\Users\Kennedey>
```

Print “Hello world!”

Then check containers

Command Prompt

```
C:\Users\Kennedey>docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
ubuntu        16.04      9ff95a467e45  2 weeks ago  135MB

C:\Users\Kennedey>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\Users\Kennedey>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
C:\Users\Kennedey>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
884c500b512b   ubuntu:16.04  "/bin/echo 'Hello wo..."  About a minute ago  Exited (0) About a minute ago          condescending_goodall

C:\Users\Kennedey>
```

BASH session

```

C:\Users\Kennedey>docker run ubuntu:16.04 /bin/bash

C:\Users\Kennedey>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS          NAMES
a4b501032e3b   ubuntu:16.04  "/bin/bash"             27 seconds ago  Exited (0) 24 seconds ago           recurring_jang
884c500b512b   ubuntu:16.04  "/bin/echo 'Hello wo..." 4 minutes ago  Exited (0) 4 minutes ago           condescending_goodall

C:\Users\Kennedey>docker run -it ubuntu:16.04 /bin/bash
root@f2c0984cb782:/# pwd
/
root@f2c0984cb782:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@f2c0984cb782:/# exit
exit

C:\Users\Kennedey>
```

Detached mode

```

C:\Users\Kennedey>docker run -d ubuntu:16.04 /bin/sleep 3600
b1ce28d12fe49c814ab4a8d963d8b2a5e88eedc305818d57e80bb439d6ef58d8

C:\Users\Kennedey>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS          NAMES
b1ce28d12fe4   ubuntu:16.04  "/bin/sleep 3600"       11 seconds ago  Up 8 seconds                serene_meitner

C:\Users\Kennedey>
```

Running docker exec

```

C:\Users\Kennedy>docker exec -it b1c /bin/bash
root@b1ce28d12fe4:/# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4372   704 ?        Ss   21:20   0:00 /bin/sleep 3600
root         8  0.0  0.0  18236  3312 pts/0    Ss   21:24   0:00 /bin/bash
root        19  0.0  0.0   34420  2848 pts/0    R+   21:25   0:00 ps aux
root@b1ce28d12fe4:/# exit
exit

C:\Users\Kennedy>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES
b1ce28d12fe4   ubuntu:16.04 "/bin/sleep 3600"       4 minutes ago Up 4 minutes             serene_meitner

C:\Users\Kennedy>
```

Stopping docker container

```

C:\Users\Kennedy>docker stop b1c
b1c

C:\Users\Kennedy>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS   NAMES
b1ce28d12fe4   ubuntu:16.04 "/bin/sleep 3600"       7 minutes ago Exited (137) 23 seconds ago             serene_meitner
f2c0984cb782   ubuntu:16.04 "/bin/bash"             10 minutes ago Exited (0) 10 minutes ago             flamboyant_murdock
a4b501032e3b   ubuntu:16.04 "/bin/bash"             12 minutes ago Exited (0) 12 minutes ago             recursing_jang
884c500b512b   ubuntu:16.04 "/bin/echo 'Hello wo..." 16 minutes ago Exited (0) 16 minutes ago             condescending_goodall

C:\Users\Kennedy>
```

Removing containers (was not able to use shortcut for removing all containers so removed them one by one)

```
Command Prompt

C:\Users\Kennedy>docker rm $(docker ps -a -q)
unknown shorthand flag: 'a' in -a
See 'docker rm --help'.

C:\Users\Kennedy>docker rm b1c
b1c

C:\Users\Kennedy>docker rm f2c
f2c

C:\Users\Kennedy>docker rm a4b
a4b

C:\Users\Kennedy>docker rm 884
884

C:\Users\Kennedy>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
C:\Users\Kennedy>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\Users\Kennedy>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
C:\Users\Kennedy>
```